

وزارة التعليم العالي والبحث العلمي

جامعة شط العرب

كلية التقنيات الصحية والطبية

قسم تقنيات الاشعة

عدد الوحدات	المجموع	عملي	نظري	المرحلة الأولى الفضل الأول	علم الفسلجة العام	باللغة العربية	اسم المادة
3	5	3	2		General Physiology	باللغة الانكليزية	
						اللغة الانكليزية	لغة التدريس

Objectives:

- 1- Understand the main physiologic concepts of cells and their component.
- 2- Understand the factors of homeostasis regulation in human body.
- 3- Understand the physiologic mechanisms of blood flow, gases exchanges and gastric secretions.

	Theoretical & practical syllabus	
1	IntroductiIntroduction to Human Physiology Cell components and organells	Microscope parts & uses
2	Blood : - Blood functions - Blood components : Blood plasma , plasma proteins function	Finger puncture – blood smear
3	Formed elements: Leukocytes (types and function), Platelets, and Erythrocytes Role in Erythrocytes Production.	Preparation of Blood smear : slide method.
4	Blood clotting: Clotting factors and Mechanism of Blood clot formation.	Staining of blood film.
5	Fluid compartments in the body: ICF, ECF, interstitial fluid and transcellular fluids, compositions of body fluids.	Sahli method for hemoglobin estimation.
6	Fluid shift : Diffusion , Osmosis, hydrostatic pressure, filtration & Active transport across cell membranes.	Packed cell volume (PCV).
7	Homeostasis: Blood glucose homeostasis, excretion homeostasis and body temperature regulation.	Scientific film about blood & circulating system.
8	Heart and blood vessels: Heart function, Blood vessels function.	Blood grouping & Rh factor.

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